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510(k) Number: K<u>| 4 6 2 7 8</u>

Submission Owner:

SomnoMed, Inc.

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Official Correspondent:

Date Prepared: Trade Name: Kathryn A. Jayne January 31, 2014 SomnoDent® Fusion

Common Name:

Intraoral device for snoring and mild to moderate obstructive

sleep apnea (OSA)

Classification Name:

Device, Anti-Snoring 21 CFR 872.5570

Regulation Number: Product Code:

LRK

Class: Panel: II Dental

Predicate Devices:

K050592, SomnoDent Classic K073004, SomnoDent Flex K121340, SomnoDent G2 K130558, SomnoDent Herbst

Description of the device:

The SomnoDent Fusion is an intraoral device intended for the treatment of nighttime snoring and mild to moderate obstructive sleep apnea in patients 18 years of age or older. The device functions as a mandibular repositioner, which acts to increase the patient's pharyngeal space during sleep. The increase in the patient's pharyngeal space improves their ability to exchange air during sleep. The device is patient specific (it is customized for each patient) and has an adjustable coupling mechanism enabling the amount of mandibular advancement to be set by the dentist or physician at the time of fitting the device. The SomnoDent Fusion is a modification to the SomnoDent Classic (K050592), SomnoDent Flex (K073004), SomnoDent G2 (K121340) and SomnoDent Herbst (K130558). The SomnoDent Fusion is identical to SomnoDent Classic, SomnoDent Flex, SomnoDent G2, and SomnoDent Herbst except for differences in the adjustment mechanism. Any differences introduced by these modifications, when compared to the predicate product, do not introduce new safety issues.

Indications for Use:

The SomnoDent Fusion is intended for the treatment of nighttime snoring and mild to moderate obstructive sleep apnea in patients 18 years of age or older.



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Substantial Equivalence:

Substantial Equivalence Table

T A H	SomnoDent Fusion	SomnoDent Classic K050592	Flex K073004	SomnoDent G2 K121340	SomnoDent Herbst K130558
Intended Use	* **		· ·		
Intended as an intraoral device	Yes	Yes	Yes	Yes	Yes
Intended to reduce snoring	Yes	Yes	Yes	Yes	Yes
or help alleviate snoring					
Treatment of mild to	Yes	Yes	Yes	Yes	Yes
moderate obstructive sleep apnea	,				
Intended for nighttime use	Yes	Yes	Yes	Yes	Yes
Indicated for single patient multiuse	Yes	Yes	Yes	Yes	Yes
Indicated for use at home or sleep laboratories	Yes	Yes	Yes	Yes	Yes
Target population:	Yes	Yes	Yes	Yes	Yes
Prescription device	Yes	Yes	Yes	Yes	Yes
Design 🚈 🚎					r "
Customized fit for each patient (patient specific)	Yes	Yes	Yes	Yes	Yes
Separate upper and lower tray pieces	Yes	Yes	Yes	Yes	Yes
Works by mandibular advancement	Yes	Yes	Yes	Yes	Yes



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te. Territoria	SomnoDent Fusion	SomnoDent Classic K050592	SomnoDent Flex K073004	SomnoDent G2 K121340	SomnoDent Herbst K130558
Can be	Yes	Yes	Yes	Yes	Yes
adjusted or refit					
Lower jaw	Yes	Yes	Yes	Yes	Yes
adjustment					
using supplied					
components					
Permits patient	Yes	Yes	Yes	Yes	Yes
to breathe					
through mouth					
Upper and	Yes	Yes	Yes	Yes	Yes
lower trays					
disengage for					
easy removal	\\	No.			
Cleaned and	Yes	Yes	Yes	Yes	Yes
inspected daily					
by patient Material		3 3 3 4 3 3 3 3 3 3 3 3 3 3		1.7	,
Trays	Yes	No	Yes	Yes	Yes
constructed	(Flex	INO	165	(Flex	(Flex
from a soft	retention)			retention)	retention)
lining material	No			No	No
adhered to a	(Classic			(Classic	(Classic
hard surface	retention)			retention)	retention)
acrylic	,			,	,
Advancement	Yes	Yes	Yes	No	Yes
mechanism					
constructed of					
surgical grade				•	
stainless steel					



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Substantial equivalence discussion:

The SomnoDent Fusion is considered to be substantially equivalent to the SomnoDent Classic, Flex, G2, and Herbst device. The SomnoDent Fusion and predicate devices function as a mandibular repositioner, which acts to increase the patient's pharyngeal space during sleep. The increase in the patient's pharyngeal space improves their ability to exchange air during sleep. The devices are patient specific (customized for each patient) and have an adjustable coupling mechanism enabling the amount of mandibular advancement to be set by the dentist or physician at the time of fitting the device. The SomnoDent Fusion is identical to SomnoDent Classic, Flex, G2, and SomnoDent Herbst except for differences in the adjustment. The SomnoDent Fusion will be available in one of two material types, acrylic (identical to SomnoDent Classic) or soft lining adhered to acrylic (SomnoDent Flex). Any differences introduced by these modifications, when compared to the predicate product, do not introduce new safety issues.

Summary of Testing:

To demonstrate substantial equivalence, testing was conducted on the advancement mechanism to ensure the device performed as intended and is safe and effective. Mechanical testing was conducted on the calibration mechanism of the subject device. Testing results indicate that the mechanism withstands applicable pressures, ensuring the device is safe and effective. The testing concluded that the advancement of the subject device is substantially equivalent to the predicate device with regards to mechanical performance. Testing demonstrates that the subject device, the SomnoDent Fusion, is as safe, as effective, and performs as well as or better than the predicate devices, the SomnoDent Classic, SomnoDent Flex, SomnoDent G2, and SomnoDent Herbst.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

June 20, 2014

SomnoMed, Incorporated
Ms. Kathryn Jayne
Regulatory Affairs/Quality Assurance Manager
7460 Warren Parkway, Suite 190
Frisco, TX 75034

Re: K140278

Trade/Device Name: SomnoDent Fusion Classic, Somnodent Fusion Flex

Regulation Number: 21 CFR 872.5570

Regulation Name: Intraoral devices for snoring and intraoral devices for snoring and

obstructive sleep apnea

Regulatory Class: II Product Code: LRK Dated: June 4, 2014 Received: June 5, 2014

Dear Ms. Jayne:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Mary S. Runner -S

Erin I. Keith, M.S.
Director
Division of Anesthesiology, General Hospital,
Respiratory, Infection Control and
Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure



DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement on last page.

Indications for Use	See PRA Statement on last page.
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ype of Use (Select one or both, an applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)
PLEASE DO NOT WRITE BELOW THIS LINE - CO	ONTINUE ON A SEPARATE PAGE IF NEEDED.
FOR FDA U	
oncurrence of Center for Devices and Radiological Health (CDRH) (Signature)
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